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INTELLEC® SERIES IV SOFTWARE UPGRADE INSTRUCTIONS RELEASE 3.0

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Intel Corporation, 3065 Bowers Avenue, Santa Clara, California 95051

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REV.	REVISION HISTORY	DATE
-001	Original Release	08/85

PREFACE

This manual is provided for the customer or Intel Customer Engineer who is upgrading the operating system on the local Winchester drive of an Intellec Series IV Development System to Software Release 3.0. It consists of the following information:

- *Series IV Software Upgrade Instructions for Release 3.0,* provides procedures to install Release 3.0 software on a standalone Series IV Development System.

Related Publications

For more information on the Series IV system, refer to the following manuals:

Intellec® Series IV Operating and Programming Guide, Order No. 135840

Intellec® Series IV Microcomputer Development System Overview, Order No. 121752

Intellec® Series IV Installation and Checkout Manual, Order No. 135839

If the Series IV is being used as a network workstation, refer to the following manuals:

NDS-II Network Resource Manager User's Guide, Order No. 135847

NDS-II Software Upgrade Instructions for Release 3.0, Order No. 135838

SERIES IV SOFTWARE UPGRADE INSTRUCTIONS FOR RELEASE 3.0

General

This document contains the information necessary for the user to upgrade the operating system on the local Winchester drive of an Intellec Series IV Development System to Software Release 3.0. If the Series IV is being used as a workstation on an NDS-II System, the operating system must also be upgraded at the NRM (refer to the *NDS-II Software Upgrade Instructions for Release 3.0*).

System Inventory

Verify that all items listed below have been received in the iMDX 430-U30 SIV Field Upgrade Kit. As a safety precaution, backup copies of the diskettes should be made using the SDCOPY CUSP prior to performing the upgrade.

a. Literature:
   - Dear Customer Letter (Order No. 136506)
   - Series IV Product Release Notes (Order No. 136495)
   - *Intellec® Series IV Operating and Programming Guide* (Order No. 135840)
   - *Intellec® Series IV Installation and Checkout Manual* (Order No. 135839)

b. Diskettes:
   - SIV/3 iNDX.S31 Operating System (P/N 136139-001); for systems without a SPU Board
   - SIV/4 iNDX.S41 Operating System (P/N 136140-001); for systems with a SPU Board
   - SIV iNDX.CUSPS (P/N 136141-001)
   - ISIS System Install Disk (P/N 114193-005)

Release 3.0 Software Installation

Perform the following procedure to install the software:

1. Ensure that the Configuration switches are set to select Floppy Drive 0 (FL0) as the boot device (see Table 3-1 in the *Intellec® Series IV Installation and Checkout Manual*).

2. Power-up the system by setting the circuit breaker (left rear of system) to the ON (1) position.

3. Insert the appropriate diskette, as defined below, in Drive 0. Ensure that the diskette is **NOT** write protected (no tab over the Write-Enable slot).

   iNDX.S31 diskette — Series IV without SPU Board (SIV/3)
   iNDX.S41 diskette — Series IV with SPU Board (SIV/4)

4. Momentarily depress the RESET switch located on the right-hand corner at the back of the unit. After the power-up diagnostic tests have completed, the operating system will be booted from the diskette and the following message will be displayed:

```
SIV Boot Vx.y
Mini-floppy dr 0

WAITING FOR WINCHESTER INIT, ...
Copyright 1982, 1983, 1984, 1985 Intel Corporation
User space has xxxK bytes
iNDX-Sx1 (Vx.y)

ENTER DATE (mm/dd/yy <cr>):
```

   Enter the date in the requested format.

5. The system will then prompt for the time as follows:

```
ENTER TIME (hh:mm:ss <cr>):
```

   Enter the time in the 24 hour format.

6. After a few seconds, the iNDX sign-on message and prompt character ">" are displayed as follows:

```
iNDX-Sx1 (Vx.y) Logon Version Vx.y
>
```

   The LOGON, IMPORT and EXIT command options are displayed in reverse video on the command line (line 25).

NOTE

Only the letters shown in upper case in the command line (line 25 on the screen) must be typed by the user when entering a command. The remainder of the word is completed by the Syntax Builder feature of the operating system. The FILL command may be used to disable or modify this feature (refer to the *Intellec® Series IV Operating and Programming Guide*). In the following procedures all user input is shown in reverse video.

7. Logon by typing:

```
>Logon SUPERUSER<cr>
```

   When queried for the password, enter PASSME (default password) or the existing superuser password.

NOTE

If a new system disk is installed and needs to be formatted or the target system disk needs to be reformatted, refer to Chapter 2 of the *Intellec® Series IV Installation and Checkout Manual* for instructions on performing a SYSTEM.BUILD. Note that when this command is used, all data on the target system disk will be destroyed.

8. To copy the new operating system onto an existing system disk without destroying data files, type the following:

```
>SUbmit /iNDX.Sx1/SYSTEM.COPY (FL0,sdt,vrd)<cr>
```

   where:

iNDX.Sx1	=	iNDX.S31 or iNDX.S41
FL0	=	source floppy device name.

sdt = target system disk device type; for example,
— WM0 (integral 5¼-inch Winchester)
— WD0 (8-inch Winchester in P-Box)
— HD0 (iMDX-740 fixed platter)

vrd = Volume Root Directory of the target System Disk (e.g.; W0, MW, WINI0, SYS.DSK). Use the original volume name.

example: SUbmit /iNDX.S31/SYSTEM.COPY (F10,WM0,WINI0)

NOTE

A log file will be produced under the following pathname:

/*vrd*/SYSTEM/SYSCPY.LOG

If problems are encountered during the SYSTEM.COPY, this log file should be examined to help determine the cause of the problem.

9. After the SYSTEM.COPY is complete and a prompt is displayed on line 23, logoff the system by typing:

10. A Logoff message followed by a prompt is output. Remove the diskette (iNDX.S31 or iNDX.S41) from Floppy Drive 0.

NOTE

The System Disk now contains the operating system and several of the iNDX files. From this point on, you will boot from, LOGON, and run the system from the System Disk.

11. Set the Configuration switches to select the System Disk as the boot device (refer to Table 3-1 in the *Intellec® Series IV Installation and Checkout Manual*).
12. Momentarily depress the RESET switch to boot the operating system from the System Disk.
13. When prompted, enter the DATE and then the TIME in the format used in steps 5 and 6.
14. Refer to step 7 and Logon as SUPERUSER and enter the password.
15. Insert the iNDX.CUSPS Diskette into Floppy Drive 0 and type:

where:

vrd = Volume Root Directory (same as used in SYSTEM.COPY)

example: SUbmit /WINI0/CUSPS.COPY (WINI0)

16. When the CUSPS Copy has completed, a single prompt will be displayed on line 23. At this time, remove the iNDX.CUSPS diskette.

NOTE

A log file will be produced under the following pathname:

/*vrd*/SYSTEM/CSPCPY.LOG

If problems are encountered during the CUSPS.COPY, this log file should be examined to help determine the cause of the problem.

17. To copy the ISIS operating system, verify that the write-enable tab is removed from the ISIS System Install diskette, insert it into Floppy Drive 0 and type:

```
>SUbmit /ISIS.SYS/ISIS.COPY (ISIS.SYS,vrd)<cr>
```

where:

vrd = Volume Root Directory (same as used in SYSTEM.COPY)

example: SUbmit /ISIS.SYS/ISIS.COPY (ISIS.SYS,WINI0)

18. When the ISIS.COPY is complete, remove the ISIS System Install diskette from Floppy Drive 0.

NOTE

A log file will be produced under the following pathname:

/vrd/SYSTEM/ISISCP.LOG

If problems are encountered during the ISIS.COPY, this log file should be examined to help determine the cause of the problem.

19. Execute SYSGEN to configure the system options by typing:

```
>SYSGen<cr>
```

See Figure 1 for an illustration of the SYSGEN screen.

```
Sysgen Vx.y    Std.alone Update

(1) Optional devices:
WD0   WD1   WD2   WD3
WF0   WF1   WF2   WF3
WM0   WM1   WM2   WM3
HD0   HD1   HD2   HD3

(2) Default access rights:
World   Read   Write   Delete
Owner   Read   Write   Delete

(3) Number of overlays to cache (each overlay
    requires 2k bytes) = 0
(4) SPU trace size (paragraphs) = 0
(5) CPIO trace size (paragraphs) = 0

enter option number:

                PrvPage NextPage Abort Exit
```

Figure 1. SYSGEN Screen

NOTE

Refer to Chapter 4 of the *Intellec® Series IV Operating and Programming Guide* for detailed instructions on configuring the system using SYSGEN.

20. When the new SYSGEN information has been entered, type EXIT to create the new configuration. After the prompt appears, logoff the system by typing:

    ```
    >LOGOFF<cr>
    ```

21. Momentarily depress the RESET switch to boot the operating system from the System Disk.
22. When prompted, enter the DATE and then the TIME in the format used in steps 5 and 6.
23. Refer to step 7 and Logon as SUPERUSER and enter the password.
24. The Release 3.0 System Software is now completely installed and the Series IV is ready for use as a standalone system.

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